Miele
PROFESSIONAL

Installation Instructions
Tumble Dryer
PT 825x
PT 830x SL
PT 833x
PT 840x
PT 850x
PT 880x

To prevent accidents and machine damage, read these instructions **before** installation or use.

en-US

M.-Nr. 07 713 843

Contents

IMPORTANT SAFETY INSTRUCTIONS

This appliance must be installed by a qualified technician in compliance with local regulations and standards and may only be operated in an adequately ventilated room.
Read the installation instructions and operating instructions before installing and operating the appliance.

▶ Keep these installation instructions in a safe place.

Calculating the total length and diameter of a supply-air or exhaust pipe

The length of the required pipeline and the number and shape of the elbows are determined by the structural conditions on-site. In order to maximize the airflow efficiency, the pipeline should be as short as possible and contain few or minimal sharp elbows.

In addition, a decision must be made as to whether flexible piping or steel piping could be installed with a round or square cross-section. If the tumble dryer is connected to a central air supply, the total pipe length is calculated from the sum of all exhaust and supply pipes. The maximum supply pipe length should not exceed half of the total pipe length.

⚠ The exhaust ducting for gas-heated appliances must not be made from flammable materials.
Otherwise there is a risk of fire.
Use only non-flammable materials for the exhaust ducting. All local regulations for metallic ducting must be observed.

In upward exhaust ducting systems, a condensate drain must be fitted to the bottom. The condensate must be drained via a water collection tray or a floor drain positioned in an appropriate location.

If air is being directed from multiple appliances into a combined line (exceptional circumstances), a non-return device (non-return flap) must be installed in each separate line to prevent backflow.

To make subsequent cleaning of the pipes easier, cleaning flaps should be fitted to elbows wherever possible.

The on-site exhaust ducting and venting to the outdoors must be regularly checked for lint deposits and cleaned if necessary.

Muffler (Miele accessory available to order)

The use of mufflers for exhaust ducting used with gas-heated washing machines or ironers is not permitted. The tightness of the muffler is classified as category B in accordance with EN 13180.

In gas-heated tumble dryers, approval must be obtained from the relevant building regulations inspector supervisor's office for the overall exhaust system. You are not permitted to install multiple tumble dryers to a single muffler. If the tumble dryer is fitted with a combined line, the muffler is installed directly onto the tumble dryer's exhaust nozzle. The non-return flap must then be installed downstream of the muffler in the direction of flow.

Supply air, exhaust, and ventilation cross-sections

Substitute pipe lengths

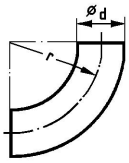
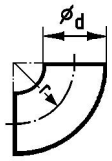
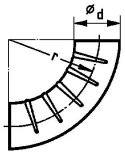
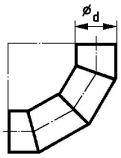
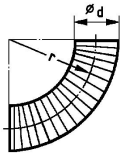
Type of elbow	Type		PT 825x	PT 830x SL	PT 833x	PT 840x	PT 850x	PT 880x
	90° elbow	r = 2d	3' 7" (1.1 m)					
	45° elbow	r = 2d	2' 3" (0.7 m)					
	90° elbow	r = d	6' 3" (1.9 m)					
	45° elbow	r = d	3' 7" (1.1 m)					
	90° corrugated pipe elbow	r = 2d	10' 6" (3.2 m)					
	45° corrugated pipe elbow	r = 2d	6' 6" (2.0 m)					
	90° segmented elbow (3 welded seams)	r = 2d	3' 11" (1.2 m)					
	90° elbow, Westaflex ducting	r = 2d	3' 11" (1.2 m)					
		r = 4d	2' 11" (0.9 m)					
	45° elbow, Westaflex ducting	r = 2d	2' 11" (0.9 m)					
		r = 4d	2' 7" (0.8 m)					
	Non-return flap		39' 4" (12 m)	18' (5.5 m)	39' 4" (12 m)	22 11" (7 m)	22 11" (7 m)	21' 3" (6.5 m)

Table 1

Maximum permissible total pipe length

Internal minimum pipe diameter (metal pipes)	PT 825x	PT 833x	PT 840x	PT 830x SL PT 850x	PT 880x
6" (150 mm)	62' 4" (19 m)	49' 2" (15 m)	39' 4" (12 m)	32' 9" (10 m)	32' 9" (10 m)
7 1/16" (180 mm)	164' (50 m)	124' 8" (38 m)	101' 8" (31 m)	88' 7" (27 m)	24 m
7 7/8" (200 mm)	278' 10" (85 m)	213' 3" (65 m)	173' 10" (53 m)	157' 5" (48 m)	131' 2" (40 m)
Permissible counter pressure in the extraction ducting	Max. 0.029 psi (2 mbar)		Max. 0.043 psi (3 mbar)		

Table 2

If the total pipe length exceeds the length specified in Table 2, contact Miele ProService.

When connected to the ducting through the exhaust nozzle of an appliance, particular care must be taken to make sure the connection is secure and air-tight.

The exhaust air ducting must not be channeled into a chimney or flue already in use for any gas-, coal- or oil-burning installation. The warm and moist exhaust air is to be conducted outside or to a suitable venting duct over the shortest path possible.

Due to the higher air flow rates, the exhaust ducting must be laid in such a way that air flow is not hindered (few bends, short pipelines, well-made connections and transitions checked for air-tightness). No filters or louvres may be fitted in the exhaust ducting.

The end of ducting leading into the open should be protected against the elements, e.g., with a downward facing 90° bend.

⚠ During tumble dryer operation, the room must be adequately ventilated.

Room ventilation opening for air intake from the setup room

The minimum dimension of the ventilation opening depends on the cross-section of the vent pipe.

If the tumble dryer is connected to a central air supply, additional ventilation openings are normally not needed.

Vent pipe			Minimum dimension for ventilation opening		
⦸	▭	A	A	⦸	▭
6" (150 mm)	-	27 7/16"² (177 cm²)	82 5/16"² (531 cm²)	10 1/4" (260 mm)	9 1/16" (230 mm)
-	6" (150 mm)	34 7/8"² (225 cm²)	104 5/8"² (675 cm²)	11 5/8" (295 mm)	10 1/4" (260 mm)
7 1/16" (180 mm)	-	39 3/8"² (254 cm²)	118 1/8"² (762 cm²)	12 3/8" (315 mm)	11" (280 mm)
-	7 1/16" (180 mm)	50 1/4"² (324 cm²)	150 11/16"² (972 cm²)	14" (355 mm)	12 3/8" (315 mm)
7 7/8" (200 mm)	-	48 11/16"² (314 cm²)	146"² (942 cm²)	13 3/4" (350 mm)	12 3/16" (310 mm)
-	7 7/8" (200 mm)	62"² (400 cm²)	186"² (1,200 cm²)	15 9/16" (395 mm)	13 3/4" (350 mm)
8 11/16" (220 mm)	-	58 7/8"² (380 cm²)	176 11/16"² (1,140 cm²)	15" (381 mm)	14 13/16" (377 mm)
-	8 11/16" (220 mm)	75"² (484 cm²)	225 1/16"² (1,452 cm²)	16 15/16" (430 mm)	15 1/16" (382 mm)
9 13/16" (250 mm)	-	76 1/8"² (491 cm²)	228 5/16"² (1,473 cm²)	17 1/8" (435 mm)	15 3/16" (385 mm)
-	9 13/16" (250 mm)	96 7/8"² (625 cm²)	290 5/8"² (1,875 cm²)	19 5/16" (490 mm)	17 1/8" (435 mm)
11 3/16" (300 mm)	-	109 9/16"² (707 cm²)	328 3/4"² (2,121 cm²)	20 1/2" (520 mm)	18 1/8" (460 mm)
-	11 3/16" (300 mm)	139 1/2"² (900 cm²)	418 1/2"² (2,700 cm²)	23 1/4" (590 mm)	20 1/2" (520 mm)

Table 3

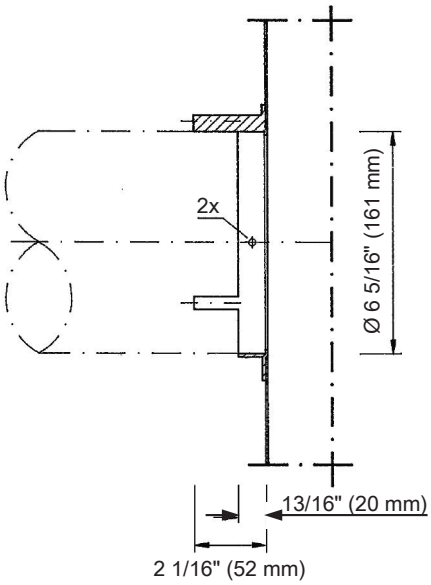
Supply connection for tumble dryers with a central fresh air intake

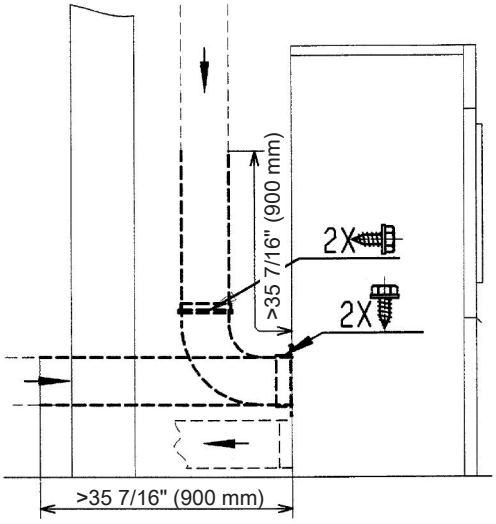
For steam-heated tumble dryers, having a central fresh air supply reduces lint build-up around the heater bank.

⚠ Removing the protective cover exposes live parts.
Any work on the appliance may only be carried out by qualified personnel while the power is switched off.

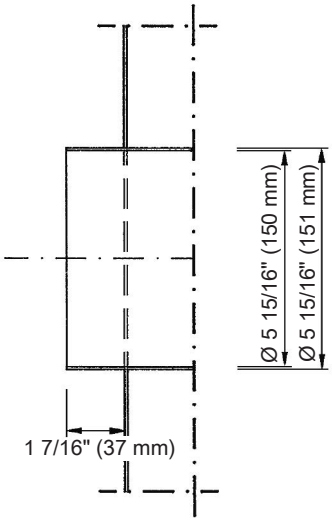
For safety reasons, a plastic or steel pipe must be installed from the tumble dryer's central fresh air intake over a minimum length of 3 ft. (900 mm). Each joint must be secured with two screws. The supply air pipe must not extend into the tumble dryer.

Supply air, exhaust, and ventilation cross-sections





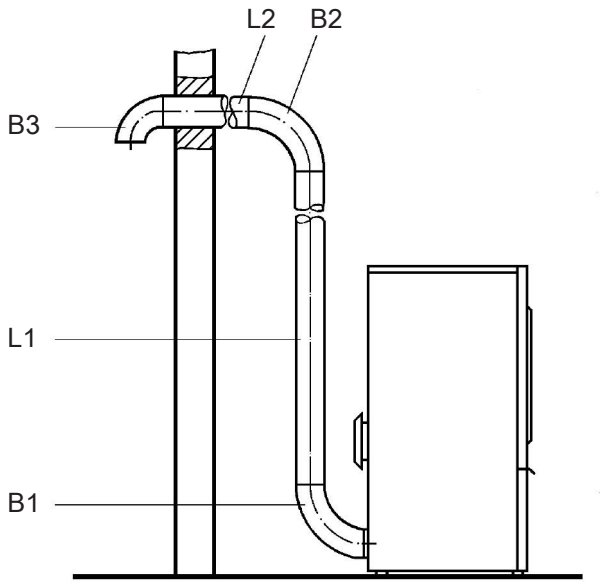
Exhaust connection



Example 1

Configuring exhaust ducting made from steel for the PT 825x series tumble dryer:

L1, L2:	each 9' 10" (3 m) steel piping
B1, B2:	each 90° concertina pipe elbow (r = 2d)
B3:	90° elbow (r = d)



1. Total pipe length

Steel pipe	L1 = 9' 10" (3.0 m)
Steel pipe	L2 = 9' 10" (3.0 m)
90° concertina pipe elbow (r = 2d)	B1 = 10' 6" (3.2 m)*
90° concertina pipe elbow (r = 2d)	B2 = 10' 6" (3.2 m)*
90° elbow (r = d)	B3 = 6' 3" (1.9 m*)
Total pipe length	**46' 11" (14.3 m)**

* Substitute pipe lengths according to **Table 1**

2. Pipe diameter depending on total pipe length

For the calculated total pipe length of **46' 11" (14.3 m)** of a PT 825x, a minimum pipe diameter of **6" (150 mm)** is specified for the exhaust ducting **according to Table 2**.

Supply air, exhaust, and ventilation cross-sections

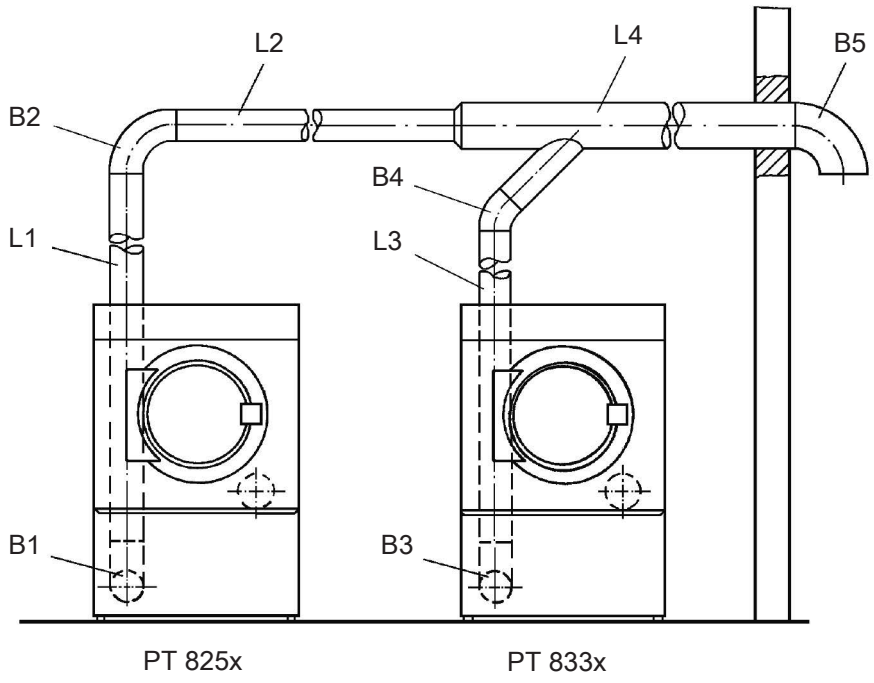
Example 2

Common combined exhaust ducting for multiple appliances should only be considered as a solution in exceptional cases.

Configuring combined exhaust ducting made from steel for the PT 825x and PT 833x series tumble dryers:

L1–L4	each 6' 6" (2 m) steel piping
B1–B3	each 90° concertina pipe elbow (r = 2d)
B4	45° elbow (r = 2d)
B5	90° elbow (r = d)

If the exhaust from multiple appliances is to be ducted into a combined line, a non-return device must be installed in each separate line to prevent backflow.



1. Total pipe length, PT 825x

Steel pipe	L1 = 6' 6" (2.0 m)
Steel pipe	L2 = 6' 6" (2.0 m)
Steel pipe	L4 = 6' 6" (2.0 m)
90° concertina pipe elbow (r = 2d)	B1 = 10' 6" (3.2 m)*
90° concertina pipe elbow (r = 2d)	B2 = 10' 6" (3.2 m)*
90° elbow (r = d)	B3 = 6' 3" (1.9 m*)
Total pipe length	**46' 11" (14.3 m)**

* Substitute pipe lengths according to **Table 1**

2. Pipe diameter depending on total pipe length

Total pipe length = **46' 11" (14.3 m)**

Maximum permissible total pipe length 62' 4" (19 m) = **Ø 6" (150 mm)** internal pipe diameter (see Table 2)

3. Total pipe length, PT 833x

Steel pipe	L3 = 6' 6" (2.0 m)
Steel pipe	L4 = 6' 6" (2.0 m)
90° concertina pipe elbow (r = 2d)	B3 = 10' 6" (3.2 m)*
45° elbow (r = 2d)	B4 = 2' 3" (0.7 m)*
90° elbow (r = d)	B5 = 6' 2" (1.9 m)*
Total pipe length	**32' 1" (9.8 m)**

* Substitute pipe lengths according to **Table 1**

4. Pipe diameter depending on total pipe length

Total pipe length = **32' 1" (9.8 m)** (PT 833x)

Maximum permissible total pipe length 49' 2" (15 m) = **Ø 6" (150 mm)** internal pipe diameter (see Table 2)

5. Total pipe diameter

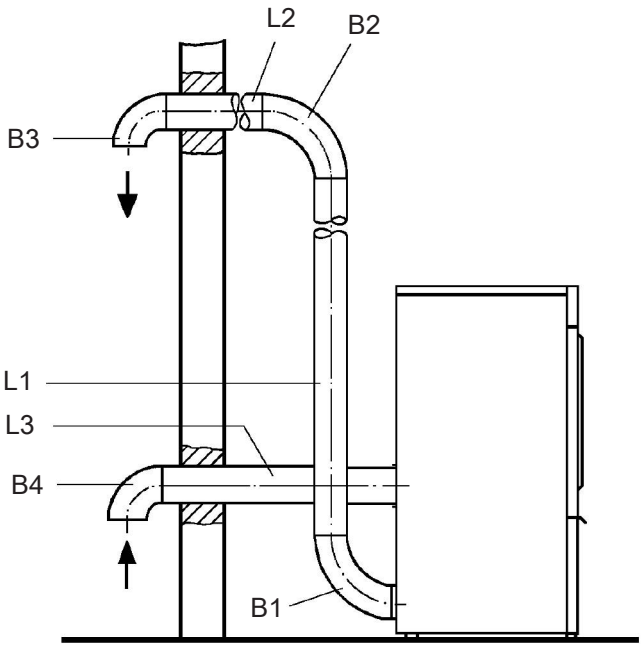
According to Table 3	
Pipe diameter, PT 825x	Ø 6" (150 mm) = 27 3/8"² (177 cm²)
Pipe diameter PT 833x	Ø 6" (150 mm) = 27 3/8"² (177 cm²)
Total cross section A	= 54 13/16"² (354 cm²)
Total pipe diameter	**= Ø 8 11/16" (220 mm)**

Supply air, exhaust, and ventilation cross-sections

Example 3

Configuring exhaust ducting and a supply pipe made from steel for the PT 825x series tumble dryer:

L1, L2:	each 6' 6" (2.0 m) steel piping
L3:	8' 2" (2.5 m) steel piping
B1, B2:	90° concertina pipe elbow for each
B3, B4:	90° elbow (r = d) for each



1. Total pipe length

Steel pipe	L1 = 6' 6" (2.0 m)
Steel pipe	L2 = 6' 6" (2.0 m)
Steel pipe	L3 = 8'2" (2.5 m)
90° concertina pipe elbow	B1 = 10' 6" (3.2 m)*
90° concertina pipe elbow	B2 = 10' 6" (3.2 m)*
90° elbow (r = d)	B3 = 6' 3" (1.9 m*)
90° elbow (r = d)	B4 = 6' 3" (1.9 m*)
Total pipe length	**54' 9" (16.7 m)**

* Substitute pipe lengths according to **Table 1**

2. Pipe diameter depending on total pipe length

For the calculated total pipe length of **54' 9" (16.7 m)** of a PT 825x, a minimum pipe diameter of **6" (150 mm)** is specified for the exhaust ducting and supply pipe **according to Table 2**.

Configuring the room ventilation opening

⚠ Rooms in which flatwork ironers and tumble dryers are operated must have an induced ventilation system (ventilation slots in windows and doors, wall breakthroughs with louvres or opened windows or skylights).

For example 1

A pipe diameter of **6" (150 mm)** was specified. According to this pipe diameter, a room ventilation opening with a size of **17' 5" (531 cm)** is required. The edge length is **9 1/16" (230 mm)** (see Table 3).

For example 2

A total pipe diameter of **8 11/16" (220 mm)** was specified. According to this pipe diameter, a room ventilation opening with a size of **37' 4" (1,140 cm)** is required. The edge length is **14 13/16" (377 mm)** (see Table 3).

For example 3

Since in this case the tumble dryer is connected to a central air supply, additional ventilation openings are not needed.

Gas

Take these safety precautions if you smell gas

- Extinguish all flames immediately.
- Open all windows and doors immediately.
- Close the gas shut-off device on the gas meter or the main gas shut-off device immediately.
- If there is the smell of gas in a room, never enter the room with a naked flame.
- Do not light matches or lighters.
- Do not smoke.
- Do not carry out any actions that will create electrical sparks (such as pulling out electrical plugs or pressing electrical switches or bells).
- Close the gas shut-off valve installed on site.
- If you cannot find the cause of the gas smell and all gas valves have been shut off, please call the gas supply company immediately.
- If other persons are being shown how to operate the appliance, they must be given and/or made aware of these important safety instructions.

During installation, the technical regulations for gas installations as well as national and regional building regulations, fire regulations, and specifications from the relevant gas supply companies must be adhered to.
When planning a gas-heated system, contact the relevant gas supply company and a building regulations inspector in good time.

1. What needs to be observed before commissioning

Please specify the gas family, gas group, and connection pressure.

Installation site

Gas-heated tumble dryers must **not** be operated in a room where cleaning machines operate with solvents containing perchloroethylene or CFCs. During combustion, any vapors that are emitted will break down into hydrochloric acid, leading to consequential damage affecting laundry and the appliance. Air exchange must not take place if appliances are set up in separate rooms.

Rooms with fuel-burning installations must be adequately aerated and ventilated. Any gas-heated appliance must be considered to be a fuel-burning installation (regardless of its gas flow rate).

If liquid gas-heated appliances are being set up below ground level, the operator must provide the system with the necessary aeration and induced ventilation equipment in accordance with technical regulations for liquid gas.

If no low pressure occurs when a full fire is burning in all fuel-burning installations, this means that the room ventilation is working properly, even if the exhaust gases from the installations are being extracted mechanically. This ensures that the gas is being combusted correctly and that the exhaust gases are being evacuated completely.

It must not be possible to seal off aeration and ventilation openings.

⚠ Before completing commissioning, maintenance, conversion, and repair work, all gas-conducting components – from the manual shut-off valve to the burner jet – must be checked for leaks.
Particular attention must be paid to the measuring stubs on the gas valve. Checks must be performed when the burner is both switched on and switched off.

▶ Installing thermal shut-off equipment on site is recommended.

▶ If gas-heated appliances are accessible to anyone, it is also necessary to check whether a gas flow monitor needs to be used.

Gas supply

Required flow rate

Appliance type	Rated heat load (Hi)	Natural gas (LL)	Natural gas (E)	Liquid gas
PT 825x	15 kW	1.85 m^3/h	1.59 m^3/h	1.18 kg/h
PT 830x SL PT 833x	18 kW	2.22 m^3/h	1.90 m^3/h	1.42 kg/h
PT 840x	21.5 kW	2.65 m^3/h	2.28 m^3/h	1.70 kg/h
PT 850x	30 kW	3.69 m^3/h	3.17 m^3/h	2.37 kg/h
PT 880x	36 kW	4.43 m^3/h	3.81 m^3/h	2.84 kg/h

Table 1

The connected load is based on the following consumption calorific values:

Natural gas LL (G 25): 29.25 MJ/m^3 (Hi)

Natural gas E (G 20): 34.02 MJ/m^3 (Hi)

Liquid gas (G 30): 45.65 MJ/kg (Hi)

Natural gas

Natural gas	Length of gas line						
	9' 10" (3 m)	15" (5 m)	32' 9 11/16" (10 m)	65' 7 3/8" (20 m)	98' 5 1/8" (30 m)	164' 1/2" (50 m)	328' 1" (100 m)
Internal diameter	**Maximum flow rate**						
¾" (20 mm)	4.7 m^3/h	3.7 m^3/h	2.6 m^3/h	1.6 m^3/h	1.1 m^3/h	0.7 m^3/h	0.3 m^3/h
1" (25 mm)	8.6 m^3/h	6.9 m^3/h	4.8 m^3/h	3.1 m^3/h	2.4 m^3/h	1.9 m^3/h	0.9 m^3/h
1 ¼" (32 mm)	16.0 m^3/h	12.4 m^3/h	8.7 m^3/h	6.2 m^3/h	5.0 m^3/h	3.8 m^3/h	2.4 m^3/h
1 ½" (40 mm)	26.5 m^3/h	20.5 m^3/h	14.5 m^3/h	10.3 m^3/h	8.4 m^3/h	6.5 m^3/h	4.0 m^3/h
2" (50 mm)	60.0 m^3/h	47.0 m^3/h	33.0 m^3/h	23.0 m^3/h	19.0 m^3/h	15.0 m^3/h	10.0 m^3/h

Table 2

Gas

Propane (LP)

Propane (LP)	Length of gas line						
		15" (5 m)	32' 9 11/16" (10 m)	65' 7 3/8" (20 m)		164' 1/2" (50 m)	
Internal diameter	**Maximum flow rate**						
3/8" (10 mm)		1.3 kg/h	1.0 kg/h	-		-	
1/2" (12 mm)		2.0 kg/h	1.5 kg/h	1.0 kg/h		-	
5/8" (16 mm)		4.0 kg/h	3.0 kg/h	2.0 kg/h		1.5 kg/h	
7/8" (22 mm)		9.0 kg/h	6.5 kg/h	4.5 kg/h		3.0 kg/h	
1 1/16" (27 mm)		-	12.0 kg/h	8.0 kg/h		5.0 kg/h	

Table 3

Exhaust gas evacuation ducts

The PT 825x/830x SL/833x/840x/850x/880x series tumble dryers are type B_{22} gas fuel-burning installations without flow safeguarding equipment, and with a fan behind the heater.

– The mixtures of exhaust gas and air that are emitted by gas-heated tumble dryers must be evacuated through a suitable chimney and out into the atmosphere via the roof.

– Exhaust air/gas evacuation ducts must be kept as short as possible and must rise vertically up to the vent flue.

– Only materials that are resistant to heat and sooting may be used.

– A condensate drain must be placed at the lowest point of the exhaust air/exhaust gas line. The condensate must be drained via a water collection tray or a floor drain positioned in an appropriate location. Supports and louvres must not be fitted. The exhaust air/exhaust gas line must be installed in a way that ensures it is leak-tight.

See the guidelines for approving exhaust gas systems containing low-temperature exhaust gases (issued by the German Institute for Structural Engineering in Berlin).

Exceptions

1. Where it is not possible for evacuation to take place through a single duct, appropriate measures must be put in place to ensure that, when an appliance is being operated, the exhaust gas/air mixture from the other appliances is not able to enter the setup room (for example, baffles and merged lines with a shape that is favorable for the flow; in this case it is important to ensure that high pressure cannot arise at the side that is not being operated). Appliances fitted with fans must not be connected to the same vent flue as those without fans.

2. When installing a combined line, the exhaust air evacuation ducts for the individual appliances must be installed horizontally in the combined line, in a way that is favorable for the flow. The cross-section of the vent flue must not be smaller than the cross-section of the combined line. Combined lines must be kept as short as possible and must rise vertically up to the vent flue. A condensate drain must be placed at the lowest point. The condensate must be drained as described above.

All exceptional cases, and particularly those where a combined line is being installed, require special permission from the relevant building regulations inspector supervisor's office.
Local codes must be observed.

Exhaust air and supply air line cross-sections

Tumble dryer	Exhaust gas connection Diameter/cross-section
PT 825x, PT 830x SL, PT 833x, PT840x, PT 880x	6"/27 1/4"² (150 mm/176 cm²)

Table 4

2. What needs to be observed during commissioning

Check that the points listed in section 1 ("What needs to be observed before commissioning") have been taken into consideration. The following should be carried out in the given order when commissioning or converting the appliance:

1. Ask the gas supply company what the gas family, gas group, and connection pressure are, and compare this information with the data specified on the tumble dryer (see the sticker at the rear).
2. Check the factory-set jet pressure based on Table 6/7 and correct it if necessary.
3. If the gas family, gas group, or connection pressure is different, it must be converted as instructed in the section entitled "Connection and conversion instructions" and the sticker at the rear of the tumble dryer must be replaced accordingly.
4. If the gas family needs to be changed, please request the appropriate conversion kit from Miele Service. When doing so, please specify the product name and the appliance number, as well as the gas family, gas group, gas connection pressure, and country where the appliance has been set up.
5. Set the jet pressure at the tumble dryer's gas regulating valve (see Table 6 and Table 7).
6. Switch on all gas consumers that are present (including the installed tumble dryer).
7. Measure the connection pressure. The connection pressure must be within the ranges specified in EN 437.

Connection and conversion instructions

Connection and conversion work must be performed by Miele Technical Service or by an authorized dealer.

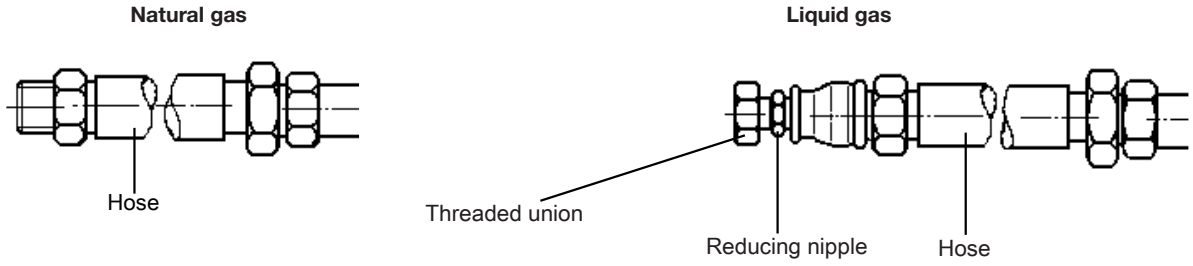
The settings for tumble dryers are made at the factory in line with the gas specifications at the rear of the appliance.

Gas hose

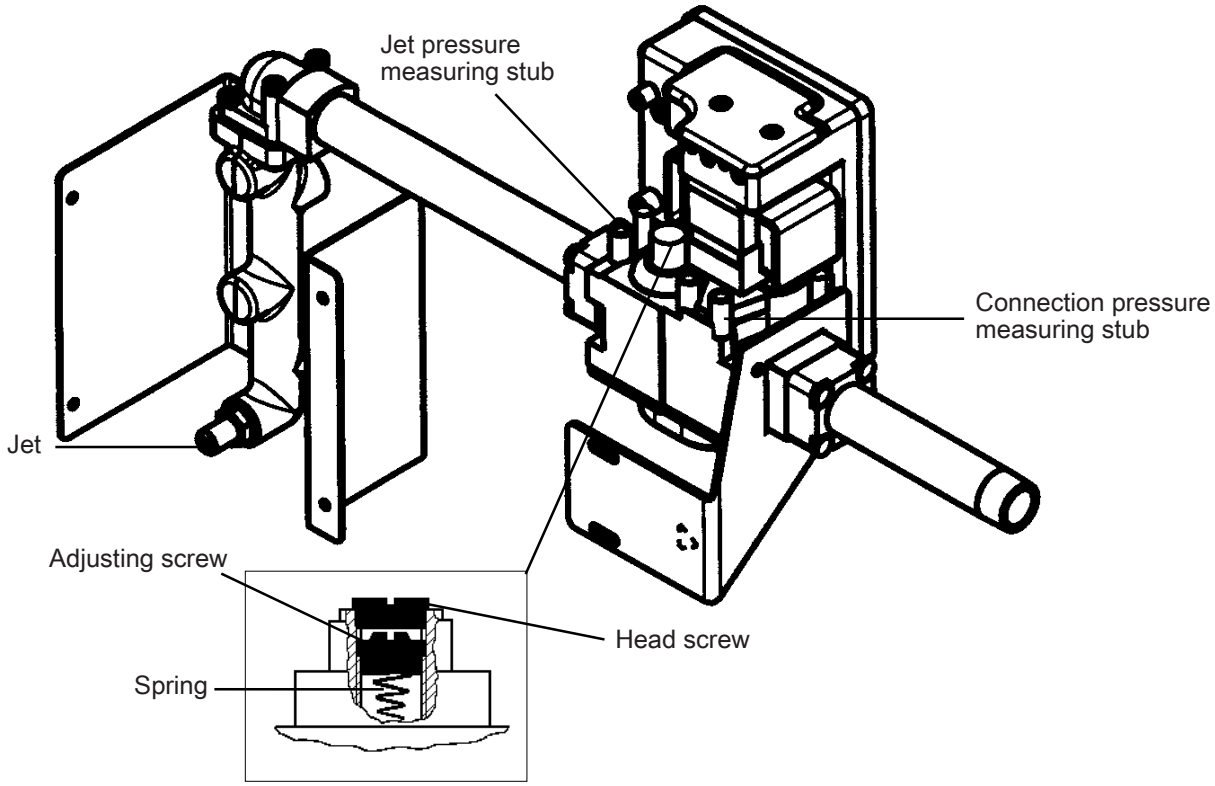
The gas appliance must be connected using a corrugated metal hose assembly made from stainless steel. When selecting the hose, the required flow rate must be taken into account. All hoses used with this appliance must comply with all current codes and regulations.

Gas

Main connection PT 830x SL



Gas regulator valve PT 830x SL



Jet pressure adjustment

- Unscrew the head screw.
- Adjust the jet pressure with the adjusting screw (see Table 6 for natural gas and Table 7 for liquid gas).
- Reinstall the head screw.

Burner conversion

- Replace the jet and the sealing ring (included with the conversion kit).

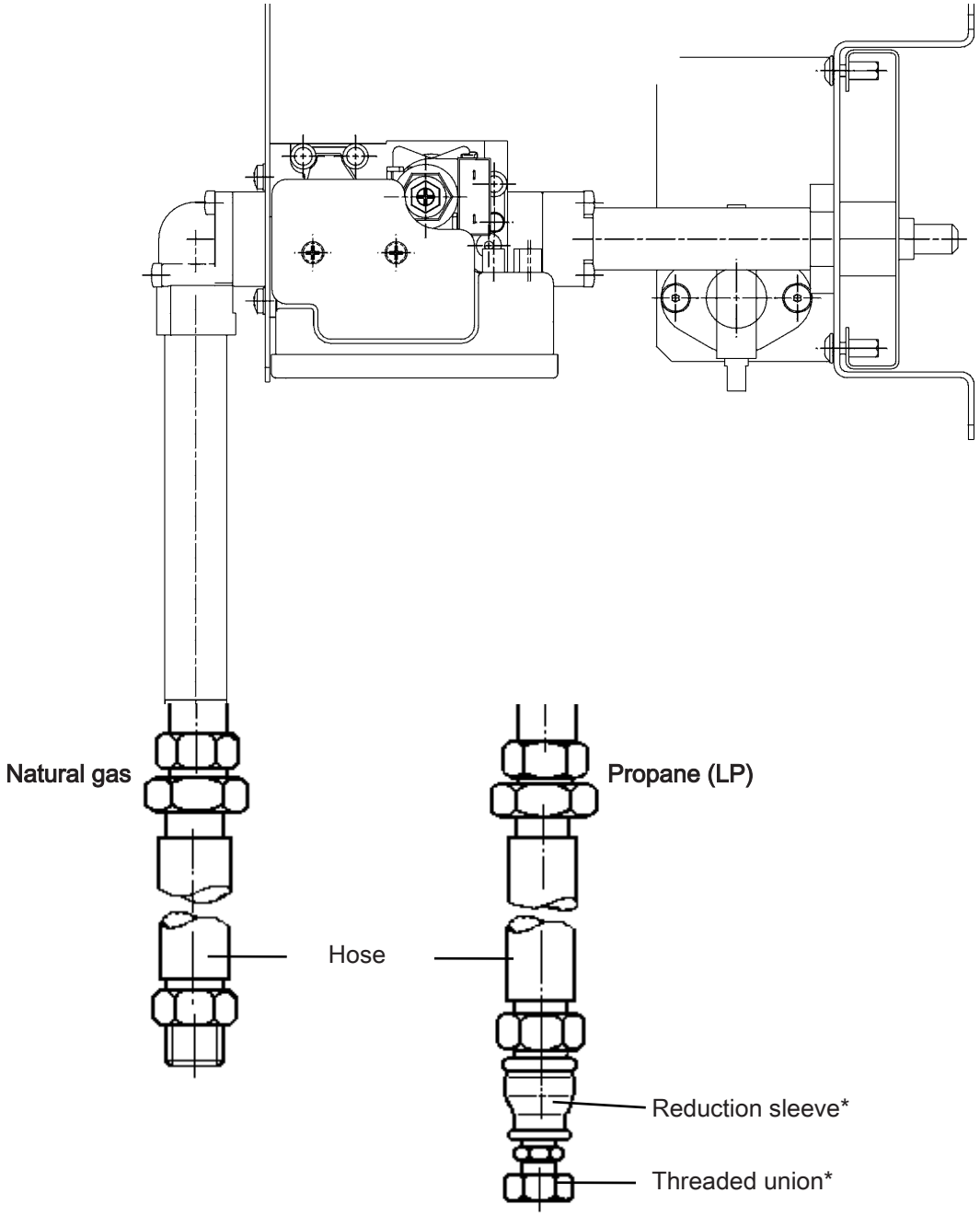
– Natural gas = large hole

– Liquid gas = small hole

- Replace the sticker on the rear of the appliance (included with the conversion kit).

⚠ Gas lines and screw connections may leak after connection and conversion work. Gas may escape.
After connection and conversion work, the gas lines, all screw connections (including those on the jets), and the locking bolts on the measuring stubs must be checked to ensure they are leak-tight. This check must be performed both while the appliance is at a standstill and while it is in operation.

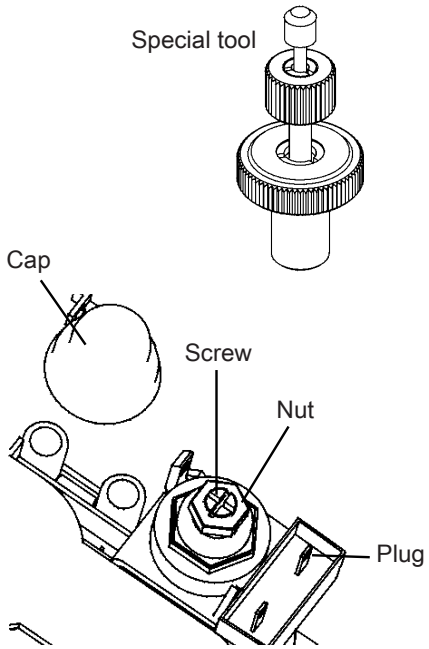
Main connection PT 825x, PT 833x, PT 840x, PT 850x, PT 880x

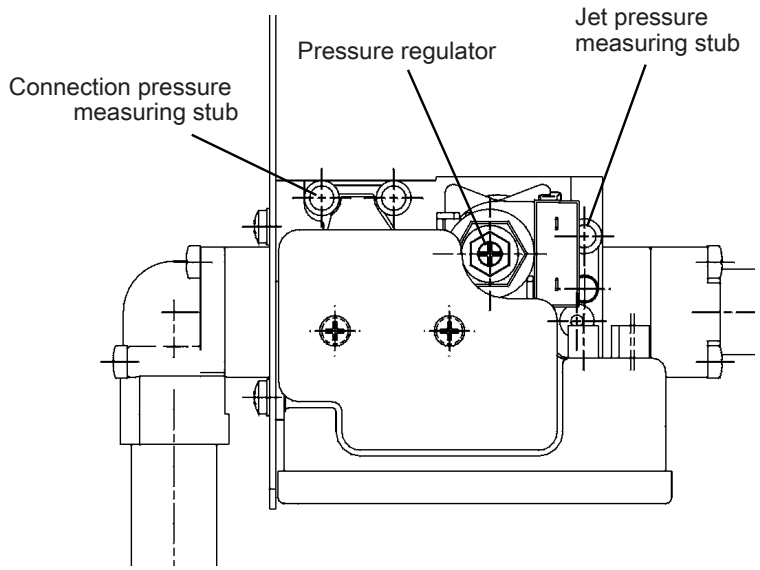


* Supplied with the kit for converting natural gas to propane (LP).

Gas

Gas regulator valve PT 825x, PT 833x, PT 840x, PT 850x, PT 880x





Jet pressure adjustment

Only the special tool may be used for adjustment via the pressure regulator.

- Loosen the locking bolts of the connection pressure and jet pressure measuring stub.
- Loosen the locking bolt of the jet pressure measuring stub.
- Check the connection pressure and jet pressure.
- Remove the cap from the pressure regulator.
- Fit the special tool to the nut of the pressure regulator.

Setting maximum pressure at full heating

Values for natural gas: see Table 6; values for liquid gas: see Table 7

- To increase the maximum jet pressure, turn the lower ring on the special tool in a clockwise direction.

The nut of the pressure regulator is tightened by the special tool.

- To reduce the maximum jet pressure, turn the lower ring on the special tool in a counterclockwise direction.

The nut of the pressure regulator is loosened by the special tool.

Adjusting the minimum pressure with power supply interrupted

- Pull out the plug.
- Hold the lower ring of the special tool steady and carry out the following steps.

The nut is held secure by the special tool.

- To increase the minimum jet pressure, turn the top ring on the special tool in a clockwise direction.

The screw of the pressure regulator is tightened by the special tool.

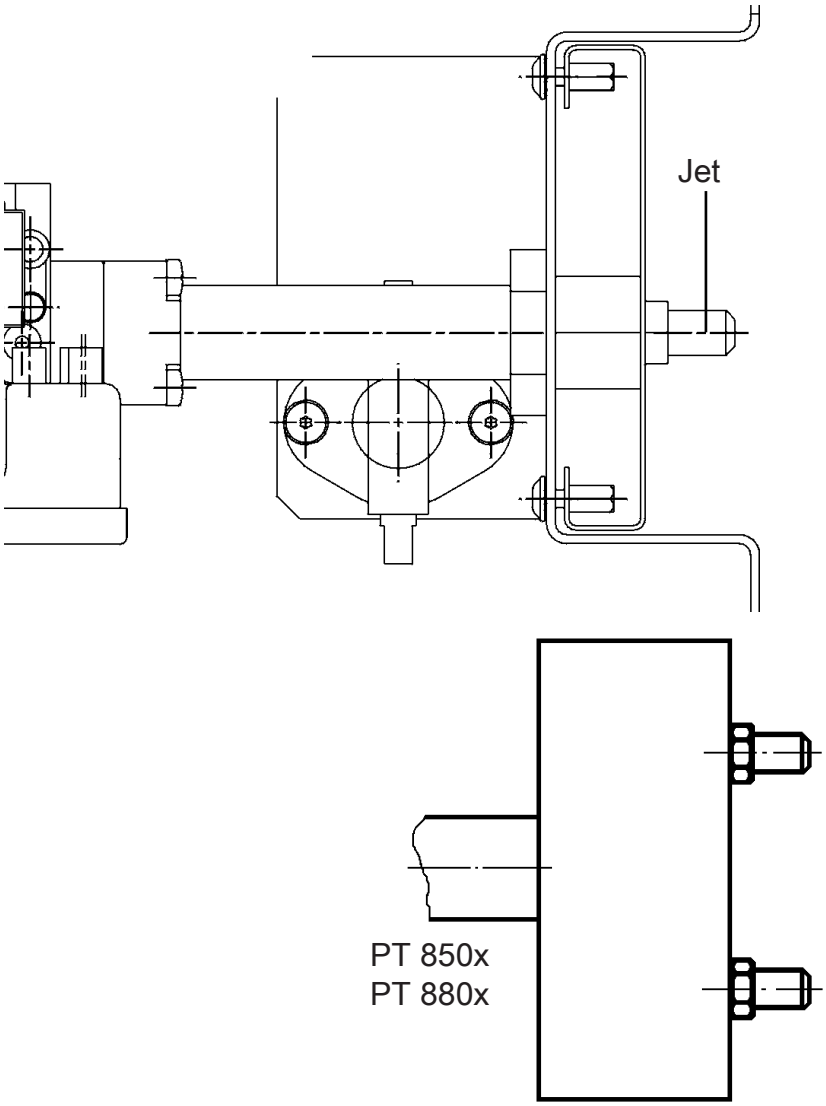
- To reduce the minimum jet pressure, turn the top ring on the special tool in a counter-clockwise direction.

The screw of the pressure regulator is loosened by the special tool.

- Insert the plug again.
- Fit the cap onto the pressure regulator.
- Seal the connection pressure and jet pressure measuring stubs with the locking bolts.

Burners, PT 825x, PT 833x, PT 840x, PT 850x, PT 880x

PT 850x, PT 880x = 2 jets



Gas

Burner conversion

■ Replace the jet and the sealing ring (included with the conversion kit).

– Natural gas = large hole

– Liquid gas = small hole

Additional steps necessary to convert to liquid gas are outlined in the “Conversion kit for natural gas to liquid gas conversion”.

⚠ Gas lines and screw connections may leak after connection and conversion work.
Gas may escape.
After connection and conversion work, the gas lines, all screw connections (including those on the jets), and the locking bolts on the measuring stubs must be checked to ensure they are leak-tight. This check must be performed both while the appliance is at a standstill and while it is in operation.

Settings with natural gas

Model	Rated heat load (Hi)		Jet diameter	Jet pressure			
				E, H		LL, L	
	Partial heating	Full heating		Partial heating	Full heating	Partial heating	Full heating
PT 825x	8.3 kW	15 kW	3.5 mm	2.5 mbar	8.5 mbar	3.7 mbar	12.7 mbar
PT 830x SL	18 kW	18 kW	4.0 mm	9.5 mbar	9.5 mbar	12.5 mbar	12.5 mbar
PT 833x	10 kW	18 kW	4.0 mm	2.3 mbar	7.0 mbar	3.3 mbar	10.4 mbar
PT 840x	13 kW	21.5 kW	4.4 mm	2.5 mbar	8.5 mbar	3.7 mbar	12.7 mbar
PT 850x	16.6 kW	30 kW	2 x 3.5 mm	2.5 mbar	8.5 mbar	3.7 mbar	12.7 mbar
PT 880x	20 kW	36 kW	2 x 4.0 mm	2.3 mbar	7.0 mbar	3.3 mbar	10.4 mbar

Table 6

Settings with liquid gas 3B/P

Model	Rated heat load (Hi)		Jet diameter	Jet pressure*	
	Partial heating	Full heating		Partial heating	Full heating
PT 825x	9.3 kW	15 kW	2.05 mm	10 mbar	27 mbar
PT 830 SL	18 kW	18 kW	2.25 mm	26.7 mbar	26.7 mbar
PT 833x	10 kW	18 kW	2.2 mm	8.4 mbar	27 mbar
PT 840x	13 kW	21.5 kW	2.4 mm	10 mbar	27 mbar
PT 850x	19 kW	30 kW	2 x 2.05 mm	10 mbar	27 mbar
PT 880x	20 kW	36 kW	2 x 2.2 mm	8.4 mbar	27 mbar

Table 7

* When using liquid gas category 3+, the pressure regulator for full heating must be turned in fully to its end stop and sealed.

The steam connection may only be carried out by a certified installer.
In addition to these installation instructions, the information from the data plate, wiring diagram, and documentation accompanying the appliance must also be noted and complied with when connecting steam-heated Miele appliances.

Miele steam-heated appliances are not subject to testing in accordance with EC Directive 97/23/EC for pressure equipment.

Operating pressure values

High-pressure steam version, indirect	HP indir.	Minimum operating pressure	Maximum operating pressure
Tumble dryer		87 psi / 600 kPa / 6 bar	145 psi / 1,000 kPa / 10 bar
Tumble dryer TR		58 psi / 400 kPa / 4 bar	72 psi / 500 kPa / 5 bar

For efficiency, the operating pressures must not fall below the specified values.

⚠ The appliances must not be connected to a hot oil circulation system.

Fitting information for steam and condensate hoses

– Ensure that the hoses are not twisted or compressed.

– Do not use steam and condensate hoses to compensate for gas lines.

Heater bank information

To avoid damage to the heater bank the following must be observed during commissioning:

– In order to avoid unnecessary heat variations, ensure that heating is even (do not allow sudden bursts of steam).

– In order to avoid corrosion, the feed water must be processed. In particular, when the appliance is not in operation, it is important to ensure that no air or CO_2 can enter the system. The condensate separator must be installed such that when the system is not operating, the heater bank is completely emptied. This means that no condensate may remain in the heater bank. The installation of an inverted bucket condensate trap is recommended.

– The heater bank must be protected from aggressive gases.

– The entire heating system must not operate at a higher pressure or temperature than specified on the data plate.

– All appropriate regulations, standards, and legislation from responsible authorities related to the installation and operation of heating and ventilation systems (in particular for the operation of the heat exchanger) must be observed.

Steam valve for high-pressure steam – indirect

Requirements profile:

– Pneumatic or servo-controlled
– Connection to ½" coupling
– Flow coefficient of at least 3 m^3/h for water
– Media temperature at least 365°F (185°C)
– Operating voltage 230 V / 50–60 Hz
– Closed when de-energized
– Electrical connection for 1/4" (6–7 mm) cable diameter

⚠ Once the appliance has been connected, re-install all the housing parts that were removed.

⚠ The hot water connection may only be carried out by an authorized or trained/certified technician.
In addition to these installation instructions, the information from the data plate, wiring diagram, and documentation accompanying the appliance must also be noted and complied with when connecting hot water-heated Miele appliances.

Operating conditions

Operating pressure	Feed water temperature	Peak capacity
87-145 psi / 600–1,000 kPa (6–10 bar)	158-203°F (70–95°C)	0.3–1.5 m^3/h

For reasons of efficiency, the operating pressures must not fall below the specified values.

⚠ The appliances must not be connected to a hot oil circulation system.

Heater bank information

To avoid damage to the heater bank the following must be observed during commissioning:

– In order to avoid unnecessary heat variations, ensure that heating is even.

– In order to avoid corrosion, the feed water must be processed. In particular, when the appliance is not in operation, it must be ensured that no air or CO_2 can enter the system.

– The heater bank must be protected from aggressive gases.

– The entire heating system must guarantee that no operating pressure or temperature can arise that is higher than the details given on the data plate.

– The system must not be connected to the drinking water supply.

– All appropriate regulations, standards, and legislation from responsible authorities and accident prevention associations for heating and ventilation systems (in particular for the operation of the heat exchanger) must be observed.

⚠ Once the appliance has been connected, re-install all the housing parts that were removed.

Please have the model and serial number of your machine available when contacting Technical Service.

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